

FIG. 1

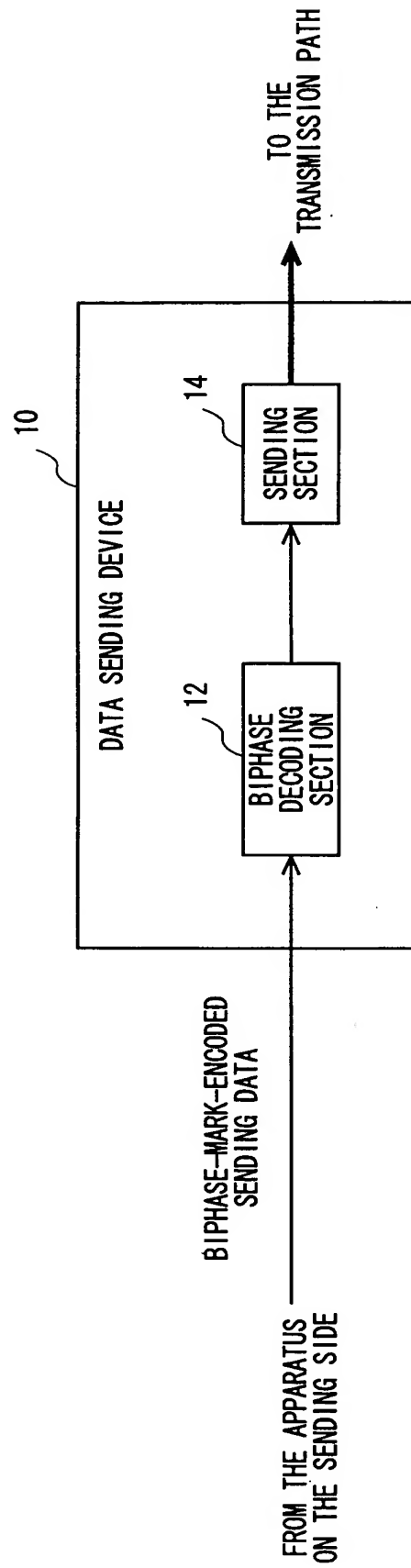




FIG. 3

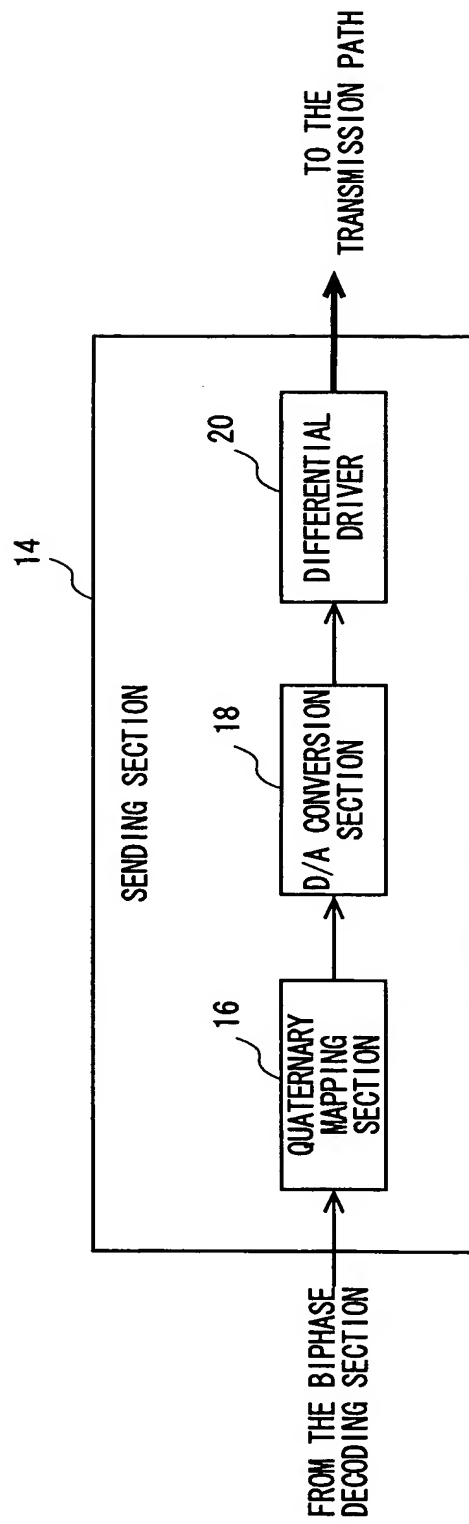


FIG. 4

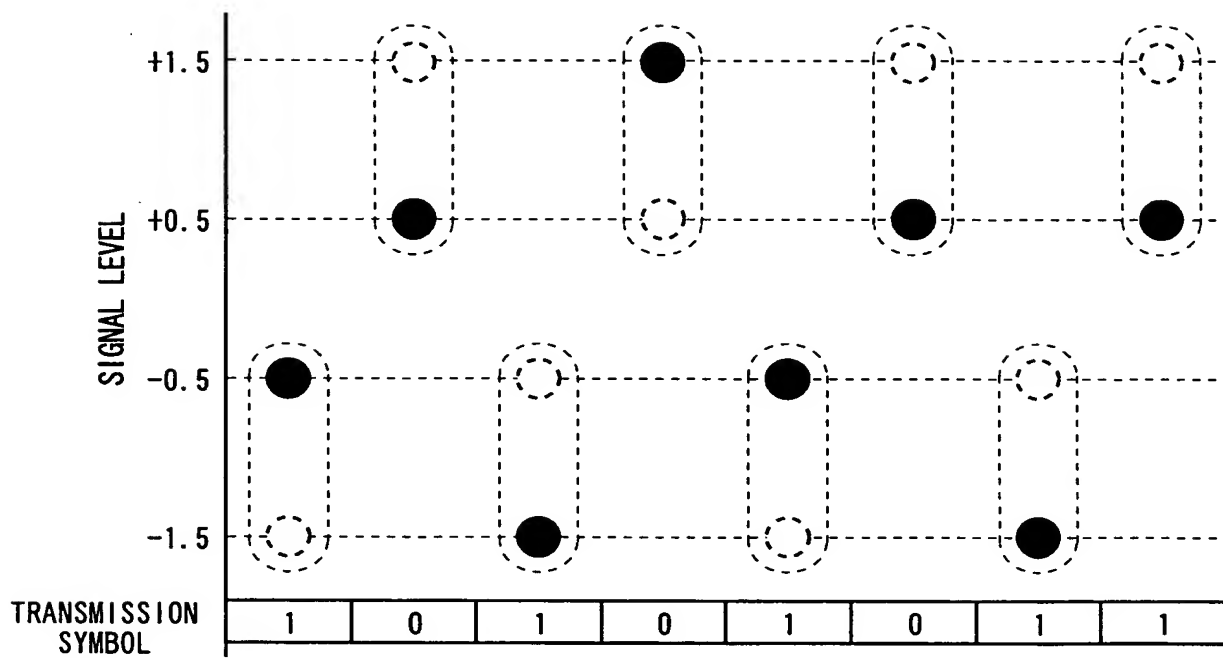
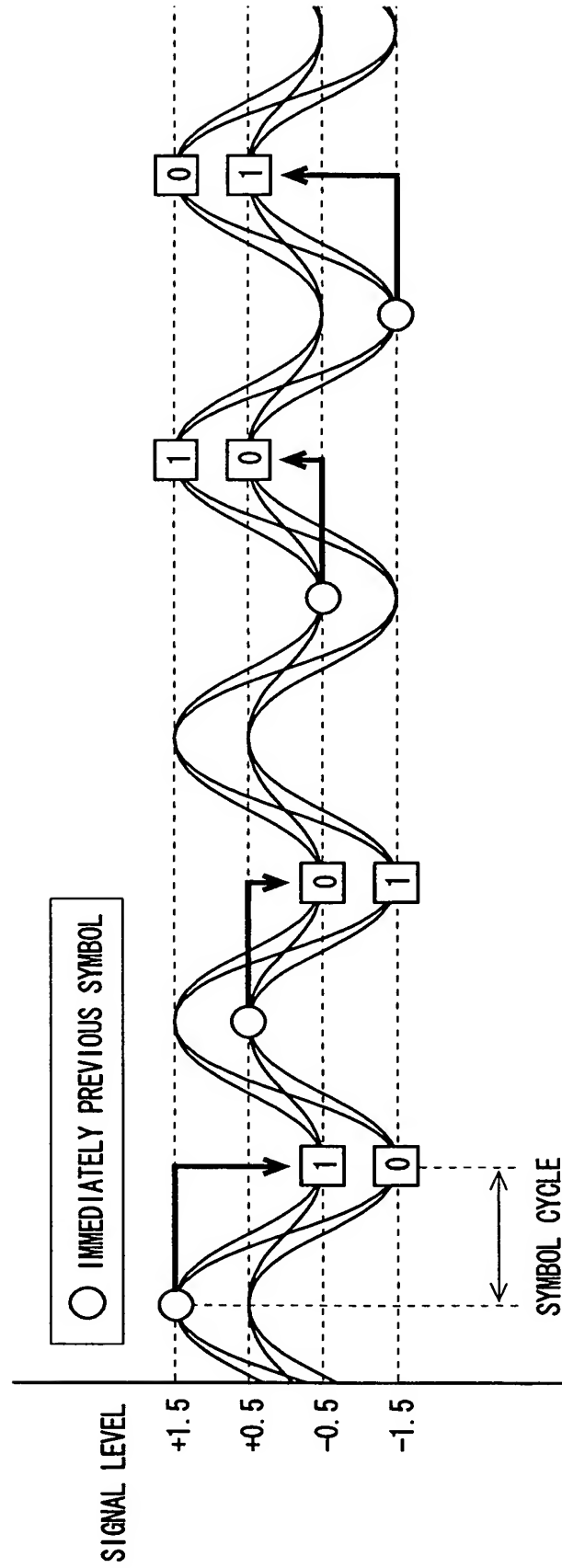


FIG. 5



F I G. 6

|  |      | SYMBOL TO BE MAPPED |              |
|--|------|---------------------|--------------|
|  |      | 0                   | 1            |
| SIGNAL LEVEL OF THE<br>IMMEDIATELY PREVIOUS SYMBOL                   | +1.5 | -1.5<br>(-3)        | -0.5<br>(-2) |
|  | +0.5 | -0.5<br>(-1)        | -1.5<br>(-2) |
|  | -0.5 | +0.5<br>(+1)        | +1.5<br>(+2) |
|  | -1.5 | +1.5<br>(+3)        | +0.5<br>(+2) |
| ( ): SIGNAL LEVEL DIFFERENCE FROM THE<br>IMMEDIATELY PREVIOUS SYMBOL |      |                     |              |

FIG. 7

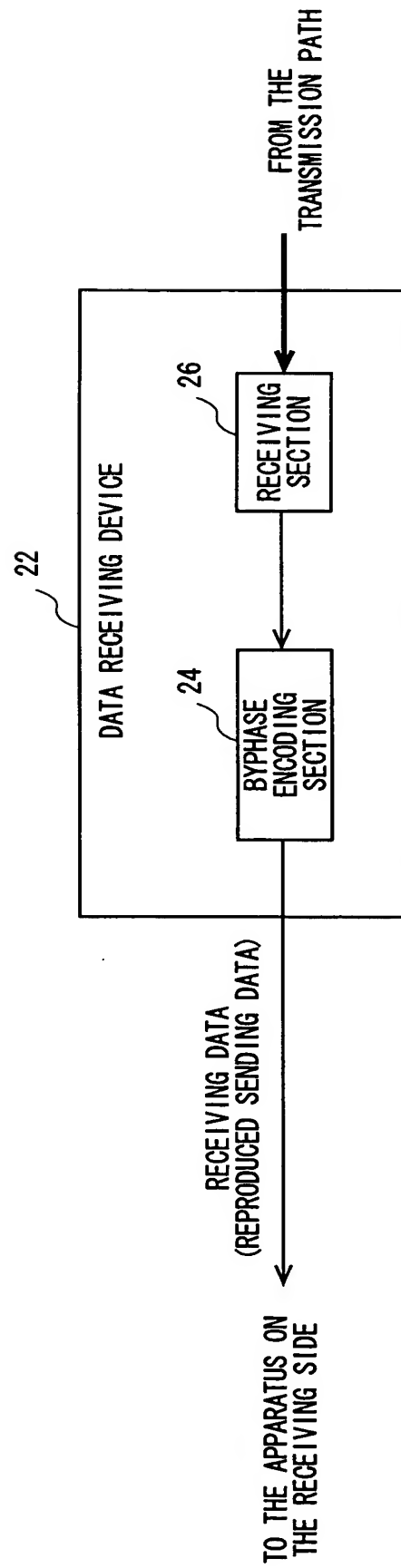
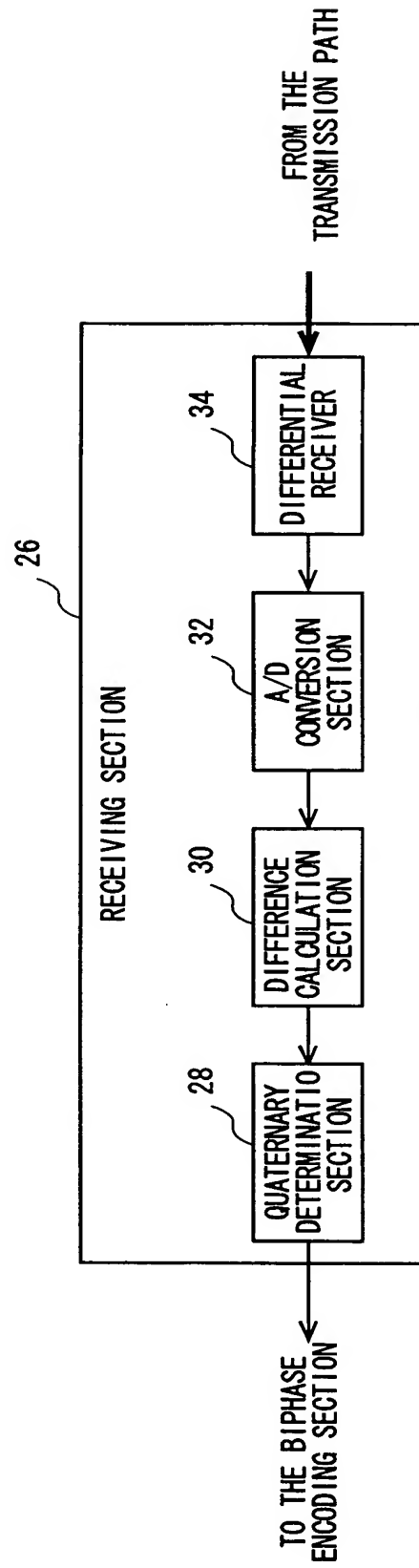
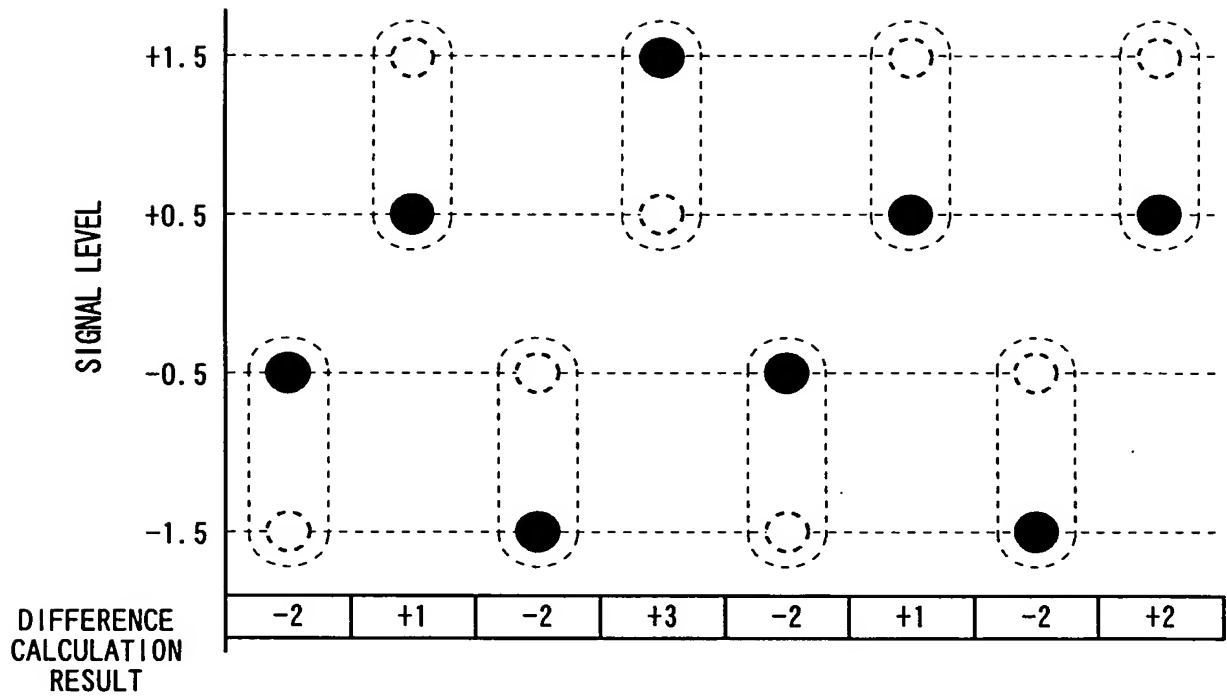


FIG. 8





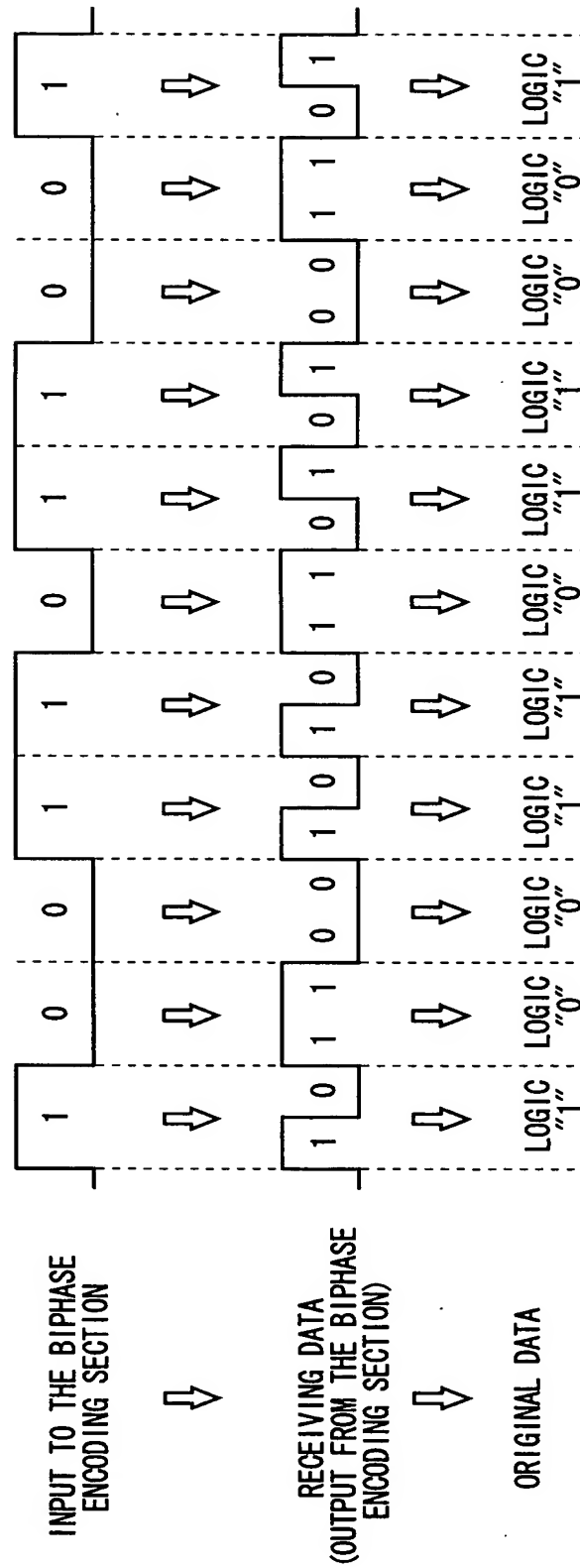
F I G. 9



F I G. 10

|             | DIFFERENCE CALCULATION RESULT |    |    |    |    |    |
|-------------|-------------------------------|----|----|----|----|----|
|             | -3                            | -1 | +1 | +3 | -2 | +2 |
| OUTPUT DATA | 0                             |    |    |    | 1  |    |

FIG. 11



S/PDIF FRAME

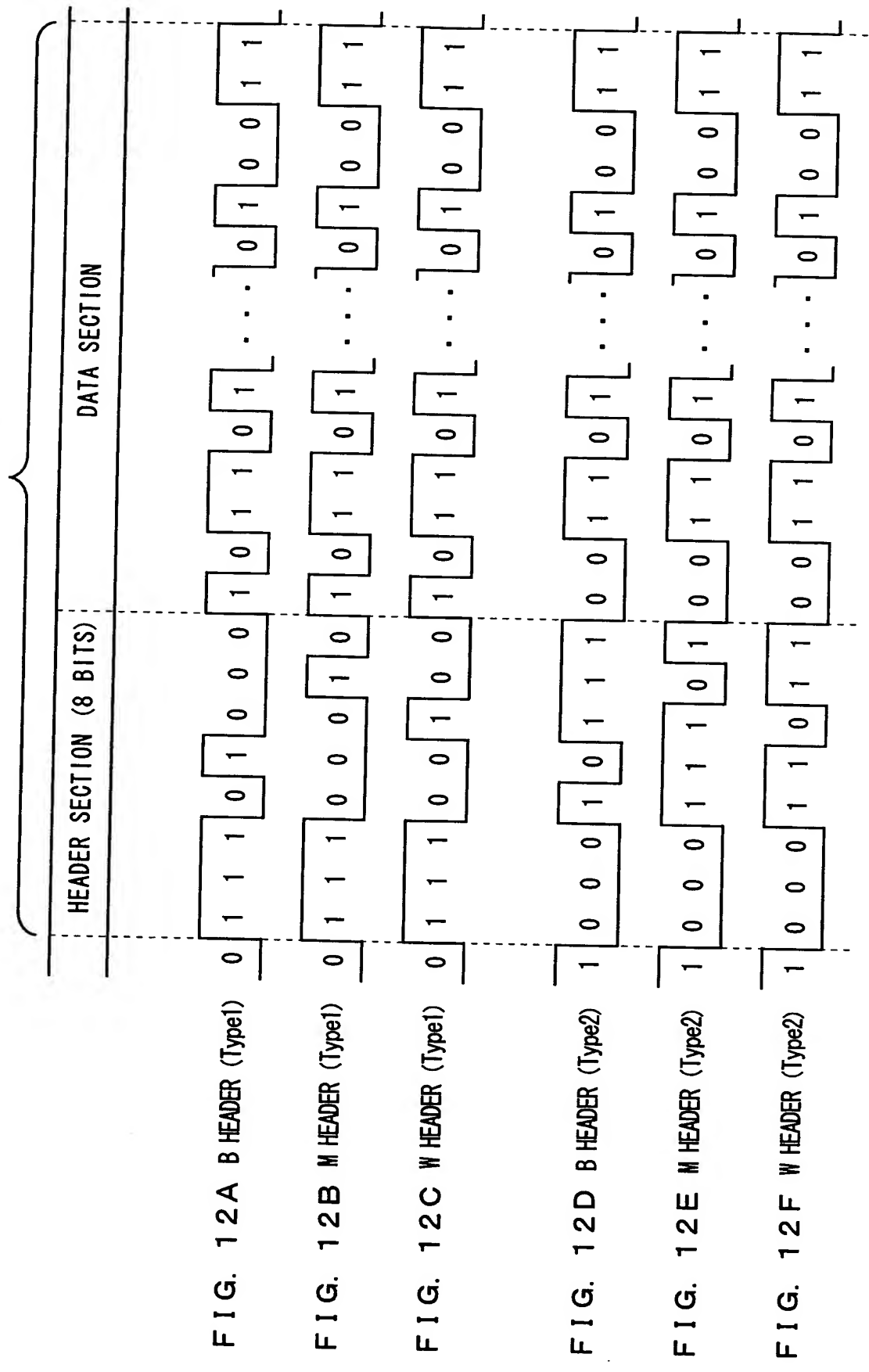


FIG. 13

|                                | SYMBOL TO BE MAPPED  |
|--------------------------------|--|
| IN THE CASE OF<br>THE B HEADER | $0 \rightarrow 0 \rightarrow +1.5 \rightarrow -0.5$<br>OR<br>$0 \rightarrow 0 \rightarrow -1.5 \rightarrow +0.5$ |
| IN THE CASE OF<br>THE M HEADER | $0 \rightarrow 0 \rightarrow +1.5 \rightarrow -1.5$<br>OR<br>$0 \rightarrow 0 \rightarrow -1.5 \rightarrow +1.5$ |
| IN THE CASE OF<br>THE W HEADER | $0 \rightarrow 0 \rightarrow +0.5 \rightarrow -0.5$<br>OR<br>$0 \rightarrow 0 \rightarrow -0.5 \rightarrow +0.5$ |

FIG. 14A B HEADER

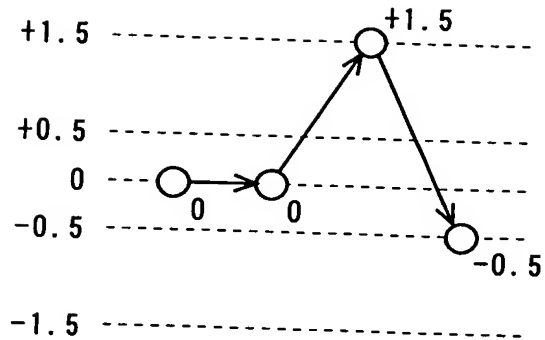


FIG. 14B M HEADER

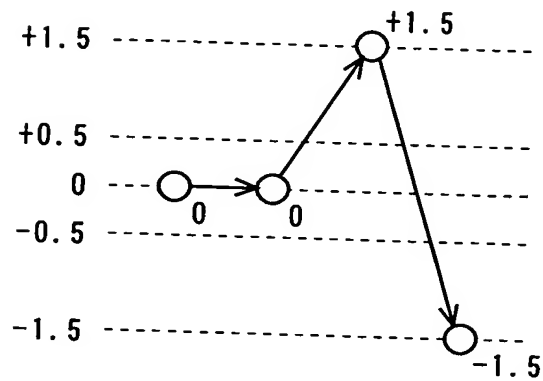


FIG. 14C W HEADER

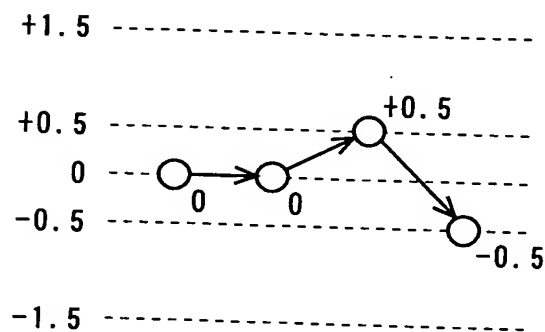


FIG. 14D OTHER

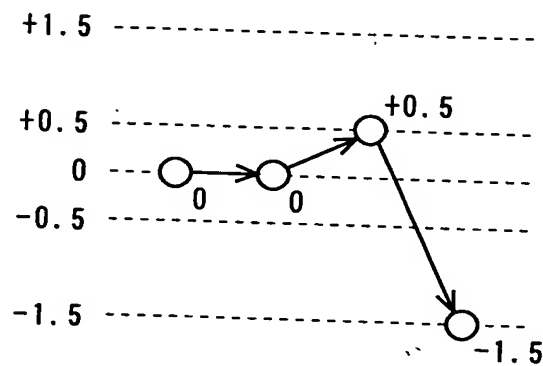


FIG. 15A B HEADER

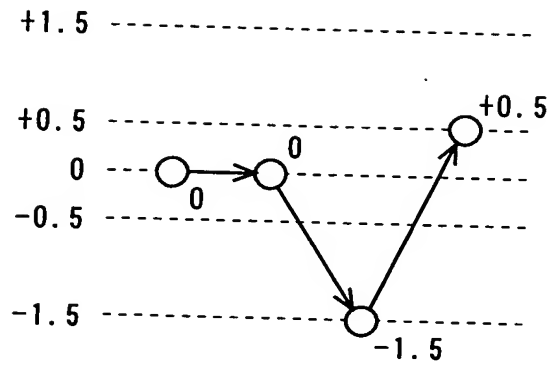


FIG. 15B M HEADER

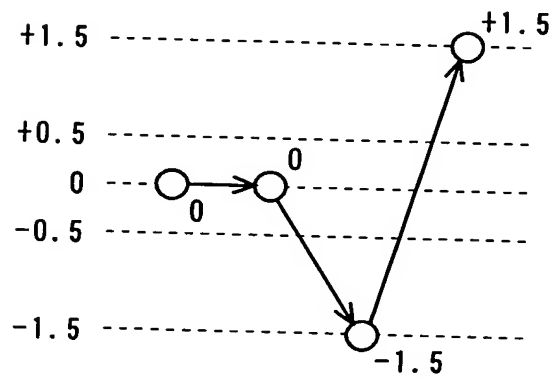


FIG. 15C W HEADER

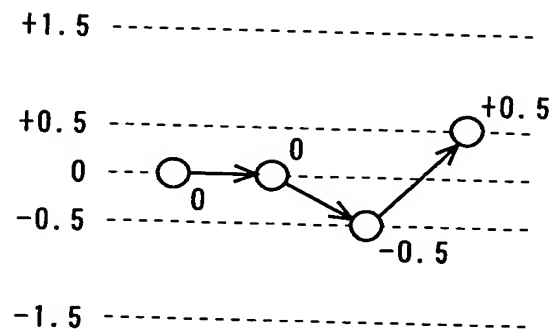
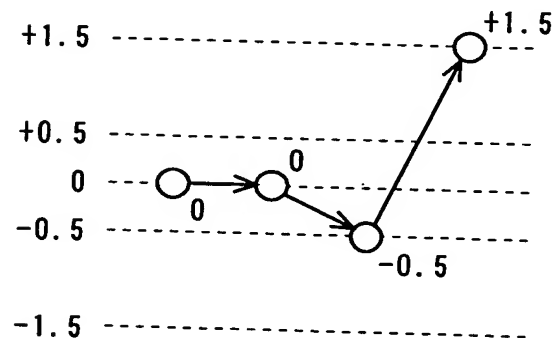


FIG. 15D OTHER



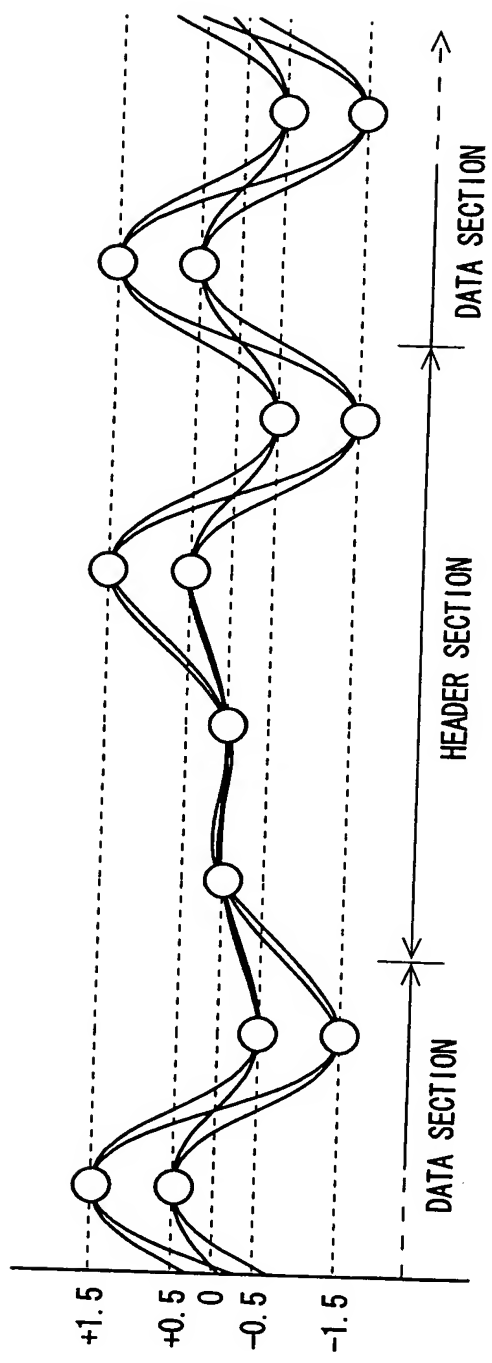


FIG. 16A

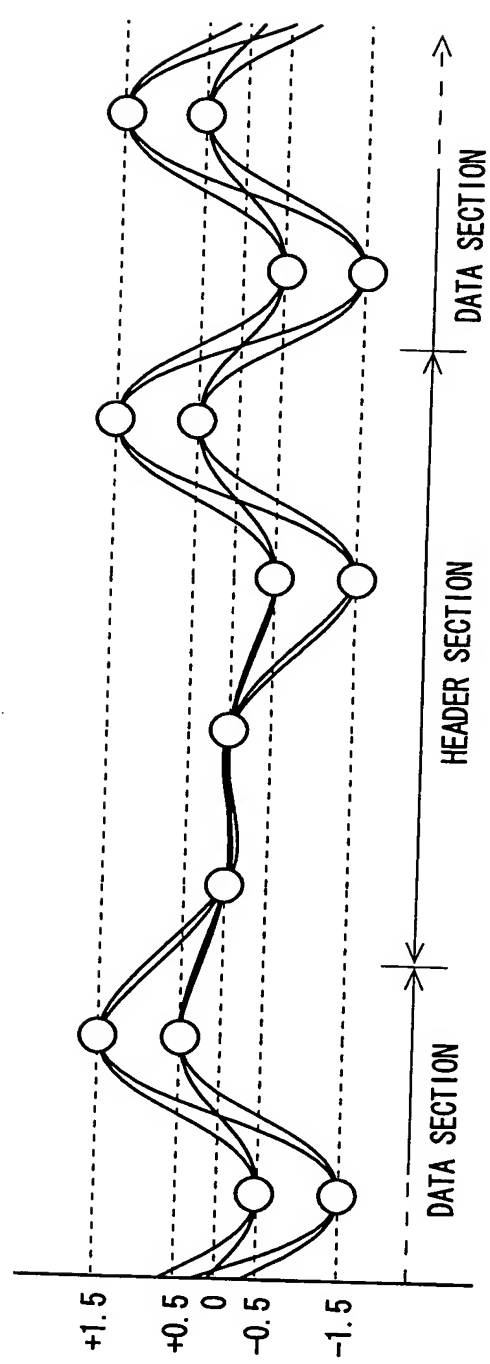


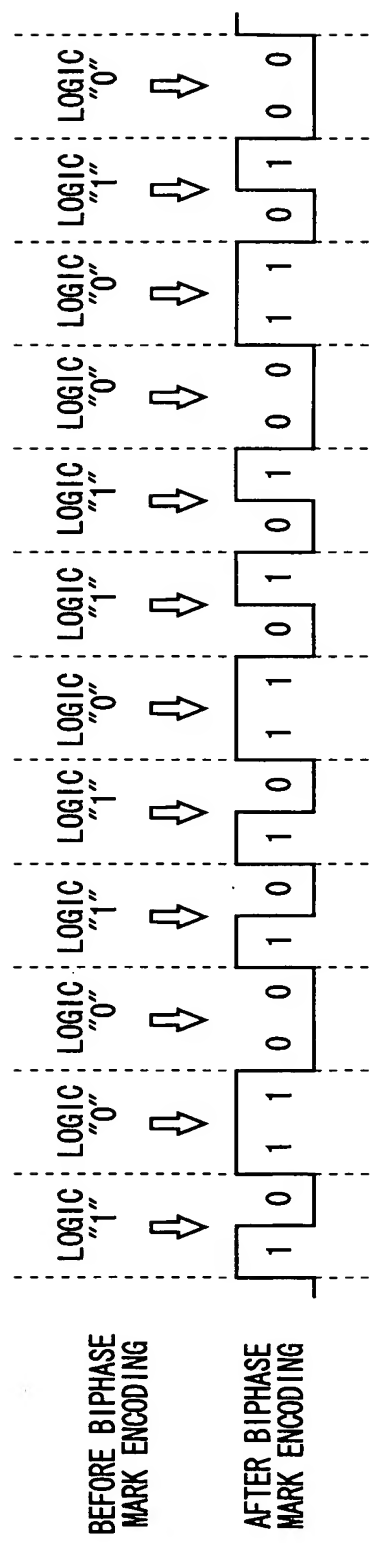
FIG. 16B

FIG. 17

| DIFFERENCE VALUE   | EXAMPLES OF<br>POST-CONVERSION 8-BIT DATA |
|--|---|
| $+0.5 \rightarrow 0 \rightarrow +1.5 \rightarrow -2$<br>$+1.5 \rightarrow 0 \rightarrow +1.5 \rightarrow -2$<br>$-0.5 \rightarrow 0 \rightarrow -1.5 \rightarrow +2$<br>$-1.5 \rightarrow 0 \rightarrow -1.5 \rightarrow +2$ | 「11101000」 or 「00010111」<br>(B HEADER)    |
| $+0.5 \rightarrow 0 \rightarrow +1.5 \rightarrow -3$<br>$+1.5 \rightarrow 0 \rightarrow +1.5 \rightarrow -3$<br>$-0.5 \rightarrow 0 \rightarrow -1.5 \rightarrow +3$<br>$-1.5 \rightarrow 0 \rightarrow -1.5 \rightarrow +3$ | 「11100010」 or 「00011101」<br>(M HEADER)    |
| $+0.5 \rightarrow 0 \rightarrow +0.5 \rightarrow -1$<br>$+1.5 \rightarrow 0 \rightarrow +0.5 \rightarrow -1$<br>$-0.5 \rightarrow 0 \rightarrow -0.5 \rightarrow +1$<br>$-1.5 \rightarrow 0 \rightarrow -0.5 \rightarrow +1$ | 「11100100」 or 「00011011」<br>(W HEADER)    |



FIG. 18



**S/PDIF FRAME**

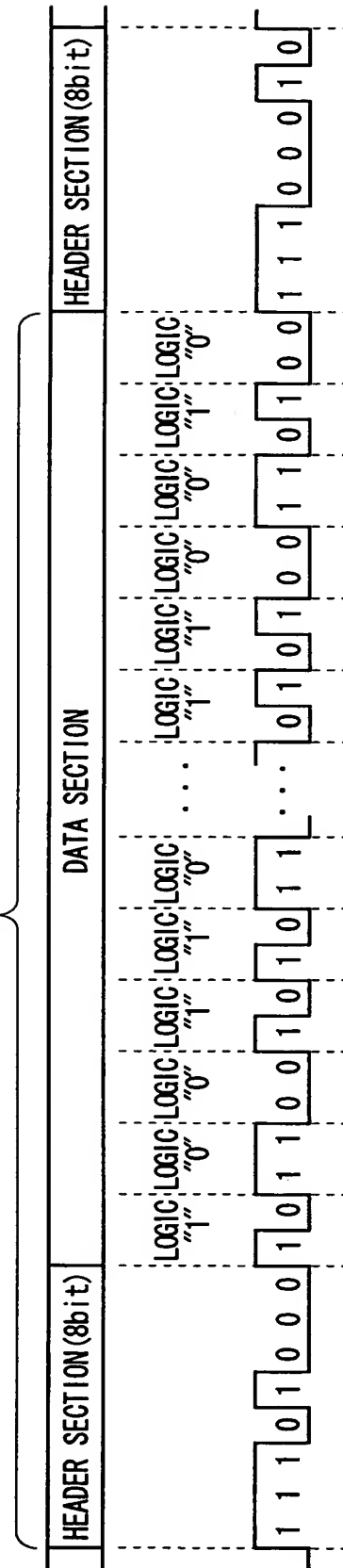


FIG. 20

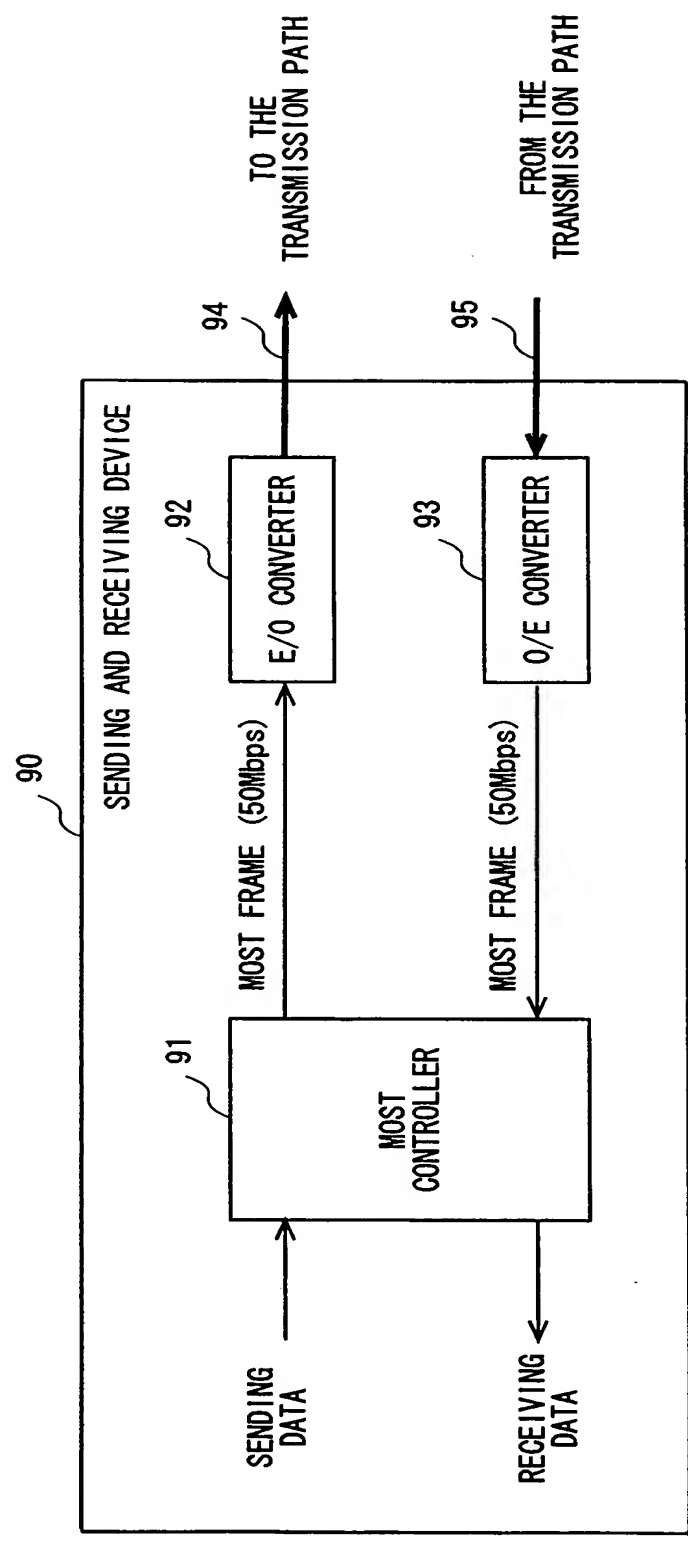


FIG. 21

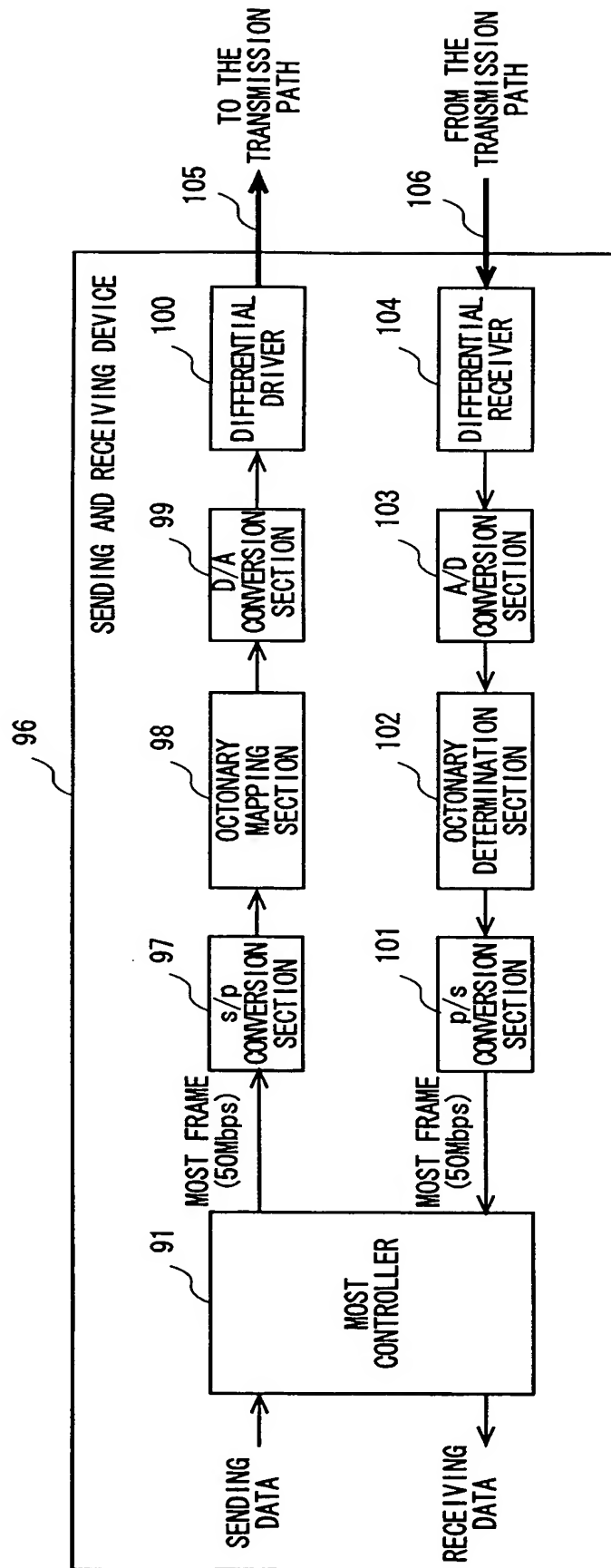


FIG. 22

